

Quick reference specification sheet, full details can be found in the P520 series installation/service guide. General details: Corrosion resistant cast iron sectional boiler, jointed by conical nipples and ceramic rope, designed with three passes for high efficiency and low NOx emission. Large insulated door (hinged left or right) allowing easy access for cleaning. Powder coated enamel steel casing c/w fibreglass insulation. All of the P520 boiler range are supplied un-assembled for delivery to site. CE approved. Boiler efficiency data to 92/42-EEC. +

P 520

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TECHNICAL
SPECIFICATION
SHEET

June 2016

OVERVIEW	
MODEL : P520	
Rated Output kW	870
Weight (dry) kgs	3364
Overall Dim WxHxD mm	1172 x 1760 x 2245
Radiated Losses % *	0.07
Efficiency % : NCV Full load (3)	90
Seasonal Efficiency : % GCV	84.3

BURNER TYPE - PRESSURE JET	
Fuel Available	Nat Gas
Fuel Consumption : max	Check Burner details
Noise levels dB (A)	Check Burner details
Min op Gas Press bar	Check Burner details

FLUE/AIR INLET	
Diameter mm	400
Flue type	Conventional
Chamber Resist. mbar	+ 2.4
Flue Gas Flow kgs/hr Gas : (1)	1280
Flue Gas Flow kgs/hr Oil : (1)	1220
Flue Gas Temperature °C : (2)	<190

CONTROLS/OPTIONS	
<p>STANDARD -</p> <ul style="list-style-type: none"> On / Off Thermostat High limit Thermostat High / Low indication Temperature Indication Volt free run/lock indication 3 Positions switch auto/man/test L/O lamp On/Off switch 10amp CB 	<p>OPTIONAL -</p> <ul style="list-style-type: none"> Hours run meters Modulating (via burner)

HYDRAULICS	
Water Content ltrs	693
Resistance @ 11°C mbar	64.13
Resistance @ 20°C mbar	19.4
Nom Flow Rate @ 11°C l/s	18.89
Nom Flow Rate @ 20°C l/s	10.39
Min flow Rate l/s : #	4.6
Max Op Press bars	As per technical manual
Test Press bars	As per Assembly Manual
Min Return temps °C	50
Connection size (weld)	140
Std Operating Temp	80
Max Operating Temp	90
High limit Set Point °C	110

ELECTRICAL	
Volatge	230.1.50
Fuse rating amps	10Amp Circuit Breaker
<p>Note: 1ph burners obtain their power supply via the boiler. 3ph burners require a 3ph supply + a 1ph to the boiler</p>	

(1) Boiler at full output average temperature 80/30 C (70 °C mean)
 (2) With boiler temperature: 80 °C and ambient temperature: 20 °C
 (3) 70 °C average temperature
 * Maintenance consumption refer to boiler installation/service manual
 # Based delta t of 45 °C between the boiler and the room temperature
 ## @ 12 bar pump pressure